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Pediculosis

Overview^(1,2)

For a complete description of pediculosis, refer to the following texts:

- Control of Communicable Diseases Manual (CCDM).
- Red Book, Report of the Committee on Infectious Diseases.

Case Definition

Clinical description

Pediculosis is an infestation of the scalp and hair with lice nits (eggs), larvae, or adult lice. The crawling stages of this insect feed on human blood which can result in intense itching. Head lice are host specific and lice infestation of man is called: *Pediculosis humanus capitis* (the head louse).

<u>Head lice</u> are small, parasitic insects that cause an infestation of the hair and scalp with nits, larvae, or adult lice. The nits hatch in 7 days and begin to reproduce 8 to 10 days later. The nits depend upon body warmth to incubate, so they attach to a hair shaft by a sticky substance close to the scalp. The adult lice require a blood meal every 4 to 5 hours. Adult head lice and nits localize primarily behind the ears and just above the hairline near the nape of the neck. However, the entire scalp, eyebrows, eyelashes, and even the beard may be involved. Bites from this insect cause intense itching. Itching is caused by a reaction between the louse's saliva and the scalp. Scratching leads to excoriations and secondary bacterial infections may occur.

Laboratory criteria for diagnosis

None required.

Case classification

Confirmed: A clinically compatible case with evidence of live lice or viable nits.

Information Needed for Investigation

- **Verify the diagnosis**. Visual inspection of the hair for nits (eggs), and scalp for larvae or adult lice.
- Establish the extent of illness. Household and close contacts should have their scalp and hair checked for head lice and nits.
- Contact the District Communicable Disease Coordinator if an outbreak is suspected in a long-term health care facility.
- Contact Bureau of Child Care if cases are associated with a child care facility.

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Case/Contact Follow Up And Control Measures

Determine the source(s) of infection.

- Identify other cases that are epidemiologically linked by time, place, and person.
- If an institution is involved, notify the appropriate administrative authorities.
- Initiate concurrent treatment for all cases and close contacts with obvious head lice or viable nits (pediculocide product and removal of all nits).
- Enhance the surveillance activities in the institution or the community to identify additional cases.
- Initiate contact isolation for all cases until effective treatment has been completed.
- Encourage child care facilities and school systems to adopt and enforce a "No Nit Policy".
- Bedding, headwear, shirts/coats (especially with collars), and other items of potential transmission should be either: 1) laundered in hot water (130°F) and dried in a hot dryer for at least 10 minutes (if clothes are clean, just place in hot dryer), 2) dry cleaning (for non-washable clothing and pillows), or 3) for items that can be neither washed nor dry cleaned place them in a plastic bag for ten days. Combs and hair brushes can be washed with a pediculocide shampoo or soaked in hot water (130°F). (4,5)
- Since nits hatch in 7 days and reproduce in 8 to 10 days, or if symptoms re-appear, follow product instruction regarding follow-up treatment (re-shampooing and combing).

Control Measures

See the Pediculosis and Phthiriasis section of the <u>Control of Communicable Diseases Manual</u> (CCDM), "Control of patient, contacts and the immediate environment". See the Pediculosis section of the Red Book.

Laboratory Procedures

None.

Reporting Requirements

<u>Outbreaks</u> of pediculosis shall be reported to the local health authority or to the Missouri Department of Health (MDOH) within 3 days of first knowledge or suspicion by telephone, facsimile or other rapid communication.

- 1. Confirm the presence of a pediculosis outbreak.
- 2. Complete an outbreak report from.
- 3. Entry of appropriate information into the outbreak form in the MOHSIS database will satisfy item 2 of this section.
- 4. Send the completed form to the District Communicable Disease Coordinator.

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References

- 1. Chin, James, ed. "Pediculosis and Phthiriasis." <u>Control of Communicable Diseases</u>
 <u>Manual</u>. 17th ed. Washington, DC: American Public Health Association, 2000: 372-374.
- 2. American Academy of Pediatrics. "Pediculosis." In: Peter G, ed. <u>1997 Red Book:</u> Report of the Committee on Infectious Diseases. 24th ed. Elk Grove Village, IL. 1997: 387-390.
- 3. Wilson, B. B. and Weary, P. E. "Lice (Pediculosis)." <u>Principles and Practice of Infectious Diseases</u>. 3rd ed. Eds. Gerald L. Mandell, R. Gordon Douglas, and John E. Bennett. New York: Churchill Livingstone, 1990: 2163-2165.
- 4. "Head Lice, Pubic Lice (Pediculosis). <u>Untitled Document</u>. 16 March 1999. http://www.mtholyoke.edu/offices/health/licemhc.html (22 Sept. 1999).
- 5. Wayne Wolfram. "Lice." <u>Lice</u>. 3 November 1998. < http://www.emedicine.com/EMERG/topic298.htm (22 Sept. 1999).

Other Sources of Information

- 1. "Head Lice (Pediculosis) Fact Sheet." <u>Disease Fact Sheet-Pediculosis (Head Lice)</u>. 23 March 1998. http://www.boco.co.gov/health/pedicu.htm> (22 Sept. 1999).
- 2. "Guidelines For The Prevention And Control Of Pediculosis." <u>Head Lice Control</u>. 17 February 1998. http://www.hcs.k12.sc.us/health/hdlice.htm (22 Sept. 1999).
- 3. "Pediculosis." <u>Headlice</u>. 1 February 1999. http://www.ocontofalls.k12.wi.us/nurse/headlice.html (22 Sept. 1999).

Web Site

National Pediculosis Association, Inc. www.headlice.org (22 Sept. 1999)

Pediculosis (Head Lice)

Fact Sheet

What is pediculosis?

Pediculosis is an infestation of the scalp and hair of the head with live larvae or adult head lice or nits (eggs). The crawling stages of the insect feed upon human blood which results in severe itching. Nits are very small round eggs that stick to the hair close to the scalp. Head lice can be found anywhere on the scalp, especially behind the ears and just above the hairline along the nape of the neck. Occasionally head lice may be found in the moustache, beard, eyelashes and eyebrows.

Who gets pediculosis?

Anyone can become infested with head lice under suitable conditions of exposure regardless of age, sex, race, or standards of personal hygiene. Head lice are most common in children. Head lice infestations are found frequently in home, child care, school, or institutional settings.

How is pediculosis transmitted?

Head lice cannot jump or fly. Head-to-head contact or sharing of personal items (such as combs, brushes, hats, scarves, jackets, sweaters, sheets, pillows, mattresses, sleeping bags, blankets, bedding, car seats, or upholstered furniture) of a person with head lice may result in transmission from one individual to another. Lice from animals do not infest humans. They may transfer to a person for a short time but do not reproduce and do not require treatment.

What are the symptoms of pediculosis?

Usually, the first indication of an infestation is itching or scratching of the scalp where the lice feed. Scratching at the back of the head or around the ears should lead to an examination for head louse nits (eggs) on the hair. If scratching is sufficiently intense, a secondary bacterial infection may result.

How soon do symptoms appear?

It may take as long as two to three weeks or longer for a person to notice the intense itching associated with head lice infestation.

How long is a person able to spread lice?

Pediculosis can be spread as long as lice or nits remain alive on the infested person, clothing, or furniture.

What is the treatment for pediculosis?

Only persons with live lice and/or viable nits require treatment. Medicated shampoos or cream rinses with a pediculocide are used to kill head lice. Over-the-counter preparations, such as RID or NIX, are effective. Follow the package directions when using these products. Products containing lindane are available only through a physician's prescription. Lindane is not recommended for infants, young children, or pregnant or lactating women. If a lindane or pyrethrin product is used, retreatment after seven to ten days is recommended to assure that no eggs have survived. Nit combs or solutions to soften nit glue are available to help remove nits from the hair. Nit removal with a nit comb is recommended to insure adequate treatment. Nit removal can be the sole treatment (i.e., no medication) for infants under one year, pregnant or nursing women, and those individuals with eyelash or eyebrow infestations.

What can be done to prevent the spread of pediculosis?

- Avoid head-to-head contact with infested individuals and their belongings (especially headgear, combs and brushes, clothing, and bedding).
- Household members, close contacts, and playmates of infested individuals should be examined and treated if live lice or nits are found.
- Infested persons in school and child care are to be excluded until they have been treated and found to be free of nits.
- Thorough cleaning of household items is recommended including: vacuuming upholstered furniture and carpets; machine wash washable clothing in hot (130° F) water, and dry in hot dryer for at least ten minutes (if clothes are clean, just place in hot dryer). Environmental spraying is not recommended. Dry cleaning is effective for non-washable clothing and pillows.
- Combs and hair brushes can be washed with a pediculocide shampoo or soaked in hot water (130°F).
- Where large scale infestations involve several families, the importance of coordination of treatment and prevention efforts is important.

Missouri Department of Health Section of Communicable Disease Control and Veterinary Public Health Phone (800) 392-0272

OUTBREAK REPORTING FORM

ID: OUTBREAK NAME:		ENTRY DATE://_		
REPORT DATE:/	PERSO	ON RECEIVING REPORT (initials):		
REPORTED BY: (circle 2-digit code) 01 Local Health Dept. 02 District Office 03 Hospital 04 Laboratory (non-hospital lab) 05 Nursing Home/Long Term Care 06 Child Care	07 08 09 10 11	School/College Industry/Worksite Private Physician/Health Care Provider Private Citizen Other State Agency Other, specify		
DATE OF REPORT TO LOCAL HEALTH	AGENC	CY://		
PROBLEM DESCRIPTION: (circle 2-digit of the continuous of the cont	code) 04 05 06 07	Cluster of Events Sensitive Event Artifact (false alarm) Other, specify		
CRITICAL EVENT DATE://_				
Number of persons reported ill:		_,		
Number of reported deaths	,			
Estimated number of persons exposed/at ris	sk			
SUSPECTED LOCATION OF EXPOSURI	E: 			
if out of state, Check here: if out of country, Check here:				
Specify suspected state and county if known	n or cou	ntry of exposure		
GENERAL CATEGORY: (circle 2-digit cod 01 Infectious Disease 02 Special Syndrome (Reye, Kawasaki 03 Injury/Trauma 04 Chronic Disease		O5 Environmental Hazard (noninfectious) O6 Occupational Hazard (noninfectious) O8 Other, specify: Unknown		
SUSPECT MODE OF TRANSMISSION: (01 Food 04 Air 02 Water 05 Person to per 03 Vector 06 Medical Proc Medication	rson cedure/	digit code) 07 Environmental Exposure 08 Worksite Exposure 09 Other, specify		
What is the specific suspect vehicle or vector?				
If a commercial product is suspected, speci-	fy:			

EXPUS	URE SETTING/PUPULATION	UN AI				
01	Camp		10	Military Base	/Camp	
02	Childcare		11	Nursing Home	e/Long Ter	m Care
03	Church/Temple		12	Occupational/		
04	Club/Health Spa		13	Prison		
05	Disaster (natural or man-mac	da)	14	Resort/Hotel		
		30)			ad Common	
06	General Community		15	Restaurant/Fo		
07	Home/Private Gathering	_	16	School/Colleg	-	
08	Hospital/Clinic/Medical Car	re Site	17	Catered Event		
09	Immigrant/Alien		88	Other, specify	у	
	_		99	Unknown		
SPEC	IFIC CAUSE: (circle 3-d	igit co	de)			
151	•	048	Hepatitis	NAND	105	Rheumatic Fever
056)12	-	s, (unspecified)		Rocky Mtn. spotted fever
		106	Influenza	_	020	Rubella
104	=				100	Salmonelia, serotype:
217)49	Legione			Samonena, serotype
001	- 1)38		Disease (Lepros		Scabies
152		039	Leptosp		225	
053		158	Listerios		160	Scombrotoxin
002		108	Lyme dis	sease	101	Shigellosis
102		013	Malaria		200	Silicosis
003	-	050		(indigenous)	161	S. Aureus
153	8	051		(imported)	219	S. Aureus - MRSA***
154		016	Meningo	ococcal infection		Strep group A
155	Cryptosporidiosis (018	Mumps		032	Syphilis
004	Diphtheria (019	Pertussis	S	021	Tetanus
156	E. coli 0157:H7)44	Plague		052	Toxic Shock Syndrome
005	Encephalitis, primary (041	Polio, (p	paralytic)	027	Trichinosis
218		345	Psittaco		022	Tuberculosis
157		159	Pseudon	nonas	023	Tularemia
029		034	Rabies (024	Typhoid Fever
011		046	Rabies (026	Typhus (murine)
010		103	Reye Sy		047	V. cholerae -01
010	Treputetis B	103	Moje by	iidi oiiio	226	V. cholerae non-01
					163	V. parahaemolyticus
201	Spinal Cord Injury	222	Liver Ca	ncer	215	Tobacco Abuse
202		209	Lung Ca		216	Other Substance Abuse
204		223	Leukemi		210	Other business results
205		210		s mellitus		
206	3 7	211		hronic Disease	* à	the Control intentional Tilenage of trailmourn oficilogy
221		212	Birth De			ate Gastrointestinal Illness of unknown etiology
207		213	Other Pe			ute Respiratory Illness of unknown etiology
208		214	Alcohol			lethicillin Resistant S. aureus
220	Multiple Cancers, specify				_	
	Suspected exposure leading		tiple canc	ers		
224	Other Cancer, specify					
777	Other Cancer, specify Environmental hazard or to	xin, spe	ecify			
888	Other, specify		•			
999	Unknown					
LEVE	OF INVESTIGATION:			LEVEL OF L	NVESTIC	ATION BY LOCAL AGENCY:
					eived repor	
01	Received report	Gaal				
02	Handled by other person/off					er person/office/agency
03	Consultation provided by p	phone of	mail			rovided by phone or mail
04	Onsite visit or assistance		Onsite visit or assistance			
05	Primary responsibility for investigation 05 Primary responsibility for investigation					
	• •			06 Refe	erred to dis	trict office
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